COSMOS Cluster 1 Lab Schedule 2019 (Subject to change)

Week	Lab#	Date	Topic
	1	1 7/8/2019 a.m.	Professor Chiang's lecture and demosIntroduction to Quantum Mechanics 152 Roessler
		2 7/8/2019 p.m.	Multimeters; DC circuits (resistors in series and parallel); fun with liquid nitrogen!
		3 7/9/2019 p.m.	Resistor circuits and Kirchhoff's Laws; introduction to AC circuits, complex impedances
		4 7/10/2019 a.m.	Measuring signals with oscilloscope, AC circuits, RC time constants, and low pass filter
		5 7/11/2019 p.m.	How to show amplitude vs log frequency on oscilloscope
		6 7/12/2019 a.m.	Professor Chiang's STM lecture Room 285 Physics
		7 7/12/2019 p.m.	2 slit interference with lasers Room 166 Roessler
	2	7 7/15/2019 a.m.	Professor Dong Yu's guest lecture Nanostructured Solar Cells 285 Physics
			Bandpass filter. Measure Diode I-V curve and band gap of LEDs; Op amps, active filters,
		8 7/16/2019 p.m.	photodiode transimpedance ampllifier
		9 7/17/2019 a.m.	Demo2 slit interference, one photon at a time
		10 7/17/2019 p.m.	Arduinos blink LEDs, tricolor LED; buzzers and music
		11 7/19/2019 a.m.	Pulse reflection on cable
		12 7/19/2019 p.m.	Arduinos switches, potentiometer, serial port, serial display
	3	13 7/22/2019 a.m.	Professor Kai Liu's guest lecture: Nanomagnetism 285 Physics
		14 7/22/2019 p.m.	Arduinos D/A and A/D converters
		7/24/2019	Project build STM
		7/25/2019	
		7/26/2019	
	4	7/29/2019	Project build STM
		7/30/2019	
		7/31/2019	
		8/1/2019	
		8/2/2019	